



**VERIFICATION**

I, Shin Sook LEE, residing at Jewoo Building 6<sup>th</sup> fl, 200, Nonhyun-Dong, Kangnam-Ku, Seoul, Republic of Korea do hereby certify:

THAT I am a Technical Translator of documents including Patent Specifications;

THAT I have good knowledge of both the Korean and English Languages;

AND THAT, to the best of my knowledge and belief, the attached document is a true and correct translation of Korean Patent Application Serial No. 79700/2000 titled "METHOD FOR USING WIRELESS HANDSET OF BLUETOOTH TERMINAL".

Dated: October 10, 2005

Shin Sook LEE  
(Typed Name)

Lee  
(Signature)



[Translation]

PATENT APPLICATION

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BLUETOOTH TERMINAL  
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This application is hereby filed pursuant to Article 42 of the Patent Law.

/S/ Attorney : Jang Won PARK

[Translation]

## ABSTRACT OF THE DISCLOSURE

[Abstract]

A method for using a wireless handset of a Bluetooth terminal is disclosed. Conventionally, a wired headset is generally used to use a free Internet call, resulting in a restriction with respect to an isolation distance from a computer, and since a wireless headset is more expensive than a wired headset, there is not many demands. The method for using a wireless handset of a Bluetooth terminal including: a first step of determining a wireless terminal mode and a handset mode through a key input of a user; a second step of performing a call function with a different wireless terminal through a speaker or a microphone installed in a terminal in case of the wireless terminal mode; and a third step of converting a voice inputted through the microphone of the wireless terminal into a signal, transmitting it as microphone input data of an internal sound card of a computer through a Bluetooth protocol, transmitting audio output data of the internal sound card of the computer to the wireless terminal through the Bluetooth protocol, converting it into a voice, and outputting the voice through a speaker of the wireless terminal. The free Internet call can be used by applying the mobile wireless terminal being widely spread as the handset of the computer. Thus, a restriction with respect to a separation distance from the computer can be reduced, usage convenience according to using of the wireless method can be enhanced, and a cost for purchasing a headset can be also reduced.

[Representative drawing]

Figure 1

[SPECIFICATION]

[Title of the Invention]

METHOD FOR USING WIRELESS HANDSET OF BLUETOOTH TERMINAL

[Brief description of the Drawings]

Figure 1 is an exemplary view showing the construction of a system according to the use of a wireless handset of a Bluetooth terminal in accordance with the present invention;

Figure 2 is an exemplary view for explaining a case where the bluetooth terminal operates as a wireless terminal mode in Figure 1; and

Figure 3 is an exemplary view for explaining a case where the Bluetooth terminal operates as a handset mode.

\*\*\*\*Explanation for the major reference numerals \*\*\*\*

1 : bluetooth terminal

2 : bluetooth card

3 : sound card

4 : computer

[Detailed description of the invention]

[Object of the invention]

[Field of the invention and background art]

The present invention relates to a method for using a wireless handset of a Bluetooth terminal and, more particularly, to a method for using a wireless handset of a Bluetooth terminal capable of applying a mobile wireless terminal as a handset of a computer by wireless connecting the mobile wireless terminal having a Bluetooth

protocol and the computer.

In general, the Bluetooth protocol, a new wireless communication technique, can connect various devices wirelessly and transmit a large amount of data at a high speed.

Thus, devices for supporting the Bluetooth protocol are being widely developed, and a mobile wireless terminal having the Bluetooth protocol appears in the market.

Meanwhile, according to wide spreading of a high speed Internet, users using a free Internet call (Internet phone, free of charge) with a computer are increasing in number, and in order to use the free Internet call with the computer, a microphone and a speaker need to be installed, for which a headset connecting the microphone and the speaker to a single device and can be put on the head of a user to allow the user to be free to use his/her hands are much popular.

However, since the headset is generally connected by a cable with the computer, there is a limitation of a separation distance with the computer, since a wireless headset is more expensive than a wired headset, there are not many demands.

#### [Technical gist of the present invention]

An object of the present invention is to provide a method for using a wireless handset of a Bluetooth terminal capable of applying a mobile wireless terminal as a handset of a computer by wireless connecting the mobile wireless terminal having a Bluetooth protocol and the computer.

#### [Construction of the present invention]

To achieve the above object, there is provided a method for using a wireless handset of a Bluetooth terminal including: a first step of determining a wireless terminal mode and a handset mode through a key input of a user; a second step of performing a

call function with a different wireless terminal through a speaker or a microphone installed in a terminal in case of the wireless terminal mode; and a third step of converting a voice inputted through the microphone of the wireless terminal into a signal, transmitting it as microphone input data of an internal sound card of a computer through a Bluetooth protocol, transmitting audio output data of the internal sound card of the computer to the wireless terminal through the Bluetooth protocol, converting it into a voice, and outputting the voice through a speaker of the wireless terminal.

The method for using the wireless handset of the Bluetooth terminal will now be described in detail with reference to the accompanying drawings.

Figure 1 is an exemplary view showing the construction of a system according to the use of a wireless handset of a Bluetooth terminal in accordance with the present invention.

As shown in Figure 1, the system includes a Bluetooth terminal 1 for performing wireless communication or Bluetooth communication by being switched to a wireless terminal mode and a handset mode through a key input of a user; and a computer 4 having a Bluetooth card 2 and a sound card 3 and connected with the Bluetooth terminal 1 through a Bluetooth protocol.

First, when the Bluetooth terminal 1 is operated in the wireless terminal mode according to a key input of the user, as shown in Figure 2, the Bluetooth terminal 1 performs a general call function with a different wireless terminal through a vocoder 12, a speaker 13 and a microphone 14 which input/output a wireless voice signal under the control of a mobile phone controller 11 installed therein.

When the Bluetooth terminal 1 is operated in the handset mode according to a key input of the user, as shown in Figure 3, a voice inputted to the microphone 14 of the Bluetooth terminal 1 is converted into a voice signal and then transmitted to the

Bluetooth card 2 installed in the computer 4 through the Bluetooth protocol of a Bluetooth device 15. Then, in the computer 4, the voice signal inputted into the Bluetooth card 2 is transmitted as a microphone input of the sound card 3 and then outputted as a voice signal to the other party of the free Internet call through an Internet line.

Conversely, when a voice signal is inputted from the other party of the free Internet call, audio output data outputted from the sound card 3 is transmitted to the Bluetooth card 2, transmitted to the Bluetooth device 15 of the Bluetooth terminal 1 through the Bluetooth protocol, converted into a voice, and then, outputted through the speaker 13 of the Bluetooth terminal 1, thereby applying the Bluetooth terminal 1 as the headset of the free Internet call.

#### [Effect of the invention]

As so far described, the method for using the wireless handset of the Bluetooth terminal has the following advantages.

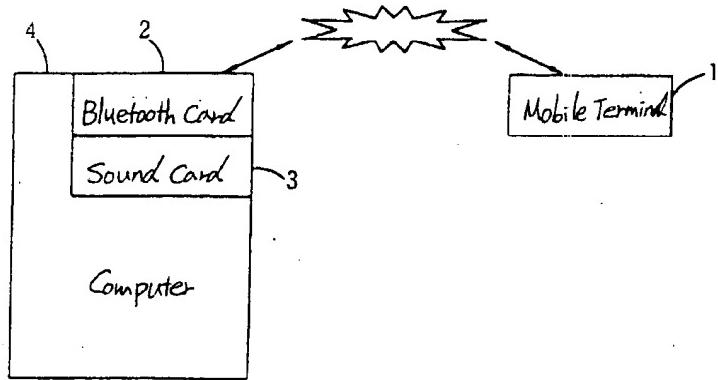
That is, the free Internet call can be used by applying the mobile wireless terminal being widely spread as the handset of the computer. Thus, a restriction with respect to a separation distance from the computer can be reduced, usage convenience according to using of the wireless method can be enhanced, and a cost for purchasing a headset can be also reduced.

What is claimed is:

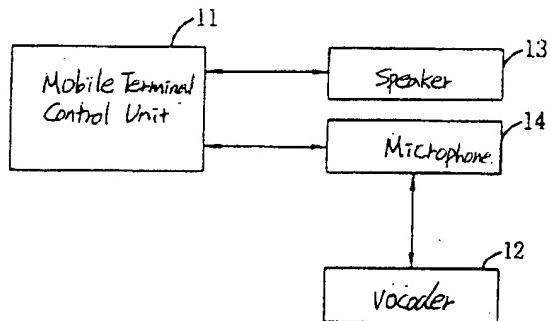
1. A method for using a wireless handset of a Bluetooth terminal comprising: a first step of determining a wireless terminal mode and a handset mode through a key input of a user; a second step of performing a call function with a different wireless terminal through a speaker or a microphone installed in a terminal in case of the wireless terminal mode; and a third step of converting a voice inputted through the microphone of the wireless terminal into a signal, transmitting it as microphone input data of an internal sound card of a computer through a Bluetooth protocol, transmitting audio output data of the internal sound card of the computer to the wireless terminal through the Bluetooth protocol, converting it into a voice, and outputting the voice through a speaker of the wireless terminal.



[Fig. 1]



[Fig. 2]



[Fig. 3]

